ADAPTIVE IMAGE UPSCALING METHOD AND APPARATUS

ABSTRACT OF THE DISCLOSURE

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A method for upscaling image data is provided. The method initiates with identifying a gradient value associated with a pixel location of the image data. Then, it is determined whether a direction associated with the pixel location is either a horizontal direction or a vertical direction. Next, a weighted interpolation scheme is applied to the pixel location when the direction is either a horizontal direction or a vertical direction. A method for applying an interpolation scheme where inter-frame redundancies are exploited is included. A computer readable media, a system for processing block based image data and an integrated circuit for scaling image data are also provided.

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